



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,225	07/14/2003	Donald J. Stavely	200308682-1	7001

22879 7590 03/29/2007
HEWLETT PACKARD COMPANY
P O BOX 272400, 3404 E. HARMONY ROAD
INTELLECTUAL PROPERTY ADMINISTRATION
FORT COLLINS, CO 80527-2400

EXAMINER

WIENER, ERIC A

ART UNIT	PAPER NUMBER
----------	--------------

2179

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/619,225	STAVELY ET AL.	
	Examiner	Art Unit	
	Eric A. Wiener	2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>4/5/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1 – 34 have been presented for examination based on applicant's disclosure filed on 7/14/2003. Claims 1 – 34 have been rejected by the examiner.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 9 recites the limitation "said transmitted data." Claim 31 recites the limitation "said unique brand." There is insufficient antecedent basis for these limitations in the claims. Therefore, claims 9 and 31 are rejected under the second paragraph of 35 U.S.C. 112.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

5. Claims 1 – 4, 8 – 14, 16 – 18, 21 – 26, 29 – 31, and 33 – 34 are rejected under 35 U.S.C. 102(a) as being anticipated by Cheatle et al. (US 2002/0140988 A1).

As per independent claim 1, Cheatle discloses *a method for delivering information comprising:*

- *identifying a graphic symbol within an electronic image ([0030] – [0031]);*
- *communicating said graphic symbol to a database of existing symbols ([0034]);*
- *matching said graphic symbol to one of said existing symbols ([0034] – [0035]);*

- *transmitting information associated with said graphic symbol to said electronic image ([0035]).*

As per independent claim 12, Cheatle discloses *an information management system comprising:*

- *client-side logic executable by a client processor for detecting a unique symbol displayed within a visual image ([0030] – [0031]);*
- *server-side logic executable by a server for matching said unique symbol to at least one of a plurality of stored symbols and returning data corresponding to said matched unique symbol to said client-side logic ([0034] – [0035] and [0066]).*

As per independent claim 23, Cheatle discloses *a method for automatically distributing information to a consumer comprising:*

- *registering a unique graphic symbol from a vendor and storing information from said vendor related to said unique graphic symbol in a database ([0035] and [0036], lines 1 – 4), wherein the fact that there is a “tag” associated with a recognized image object has been interpreted to mean that the unique object has been registered with information stored in said tag;*
- *receiving an image of said unique graphic symbol automatically acquired from a picture provided by said consumer ([0030] – [0031]);*
- *searching said database to match said image to said unique graphic symbol ([0034] – [0035]);*
- *transmitting said information related to said unique graphic symbol to said picture when a match is found ([0035]).*

As per claims 2, 13, and 25; and taking into account the rejection of claims 1, 12, and 23; respectively; Cheadle further discloses that *said electronic image is obtained by a computer readable medium ([0002] and [0010]) or an image capture device ([0017]).*

As per claims 3 and 14, and taking into account the rejection of claims 1 and 12, respectively, Cheadle further discloses that *said identifying comprises automatically analyzing visual data of said electronic image and detecting a characteristic pattern in said visual data indicative of said graphic symbol ([0030] – [0031]).*

As per claim 4, and taking into account the rejection of claim 3, Cheadle further discloses that *said characteristic pattern comprises at least one of:*

- *a size ([0030]), wherein size is a characteristic of form;*
- *a shape ([0030]);*
- *a set of colors ([0030] and [0031], lines 1 – 3), wherein a set of colors is a type of encoded pattern that would, for example, distinguish similar recognizable logos.*

As per claims 8 and 29, and taking into account the rejection of claims 1 and 23, respectively, Cheadle further discloses *searching said database for said information corresponding to said match ([0034]) and retrieving said information from said database associated with said match ([0035], lines 5 – 9).*

As per claims 9 and 33, and taking into account the rejection of claims 1 and 23, respectively, Cheadle further discloses *installing an access point to said transmitted data into said electronic image and inserting an interface object in said picture, wherein said interface object provides said consumer access to said transmitted information ([0041] – [0042]).*

Art Unit: 2179

As per claims 10, 17, and 34; and taking into account the rejection of claims 9, 16, and 33; respectively; Cheatle further discloses that *said access point comprises one or more of:*

- *a hyperlink or a web URL* ([0034], lines 1 – 4);
- *an applet or application shortcut* ([0035], lines 5 – 9 and [0038]), wherein the linking to a web camera is essentially a shortcut to a web camera applet or application;
- *a user-selectable object* ([0042]);
- *a pop-up information box* ([0039]), wherein it has been interpreted that the automatically generated link to a site is a pop-up information box of the site;

As per claims 11, 22, and 30; and taking into account the rejection of claims 1, 12, and 23; respectively; Cheatle further discloses that *said information comprises one or more of:*

- *metadata* ([0037]);
- *HTML tags or URL address* ([0034], lines 1 – 4);
- *computer logic* ([0037]), wherein computer logic is inherent in the associated information;
- *an interactive multimedia file* ([0038]).

As per claim 16, and taking into account the rejection of claim 12, Cheatle further discloses that *said client-side logic comprises image logic for incorporating said returned data into said visual image* ([0033] – [0034]) *and a graphical user interface tool for inserting a user access point to said returned data* ([0044], lines 8 – 11).

As per claim 18, and taking into account the rejection of claim 12, Cheatle further discloses *a client communication interface for transmitting said unique symbol to said server and a server communication interface for receiving said unique symbol from said client and*

transmitting said data, wherein said client communication interface receives said data transmitted by said server ([0065] – [0066]).

As per claim 21, and taking into account the rejection of claim 12, Cheatle further discloses that *said client comprises one or more of:*

- *an image capture device ([0017]);*
- *a personal computer ([0002] and [0010]);*
- *an application server in communication with one of said image capture device and said personal computer ([0065] – [0066]).*

As per claim 24, and taking into account the rejection of claim 23, Cheatle further discloses that *said image is automatically acquired at a device of said consumer ([0019], lines 1 – 2).*

As per claim 26, and taking into account the rejection of claim 23, Cheatle further discloses *creating said unique graphic symbol using a characteristic pattern, wherein said characteristic pattern comprises at least one: a size; a shape; and a color scheme ([0042]),* wherein icons and logos are unique graphic symbols of characteristic patterns comprising sizes, shapes, and colors and it is obvious that the unique icons or logos would be created by the respective vendor or logo owner before they are to be used.

As per claim 31, and taking into account the rejection of claim 23, Cheatle further discloses *extracting said image of said unique brand from said picture using code accessible by said consumer ([0056], lines 1 – 8).*

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 5 – 7, 15, 19, 20 27, 28 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cheatle et al. (US 2002/0140988 A1) in view of Bollman et al. (US 5,978,519).

As per claims 5, 15, and 32; Cheatle discloses the information management system and methods of claims 1, 12, and 31; respectively. However, Cheatle does not explicitly disclose an application and method for cropping said graphic symbol from said electronic image prior to said communicating.

Nevertheless, in an analogous art, Bollman discloses *an application and method for cropping a graphic symbol from an electronic image* (column 1, lines 54 – 58).

Thus, it would be obvious to incorporate Bollman's teaching into Cheatle's invention to automatically crop a graphic symbol from an electronic image prior to use of the symbol, because Cheatle's invention exhibits characteristics of cropping a symbol from an image when the symbol is to be analyzed [0056, lines 1 – 8]. The cropping would be an innate step to help "to identify areas of bar code and to provide corresponding output," as disclosed by Cheatle. In addition, in order to identify the specific area of the barcode or icon, the image coordinates would have to be mapped in a similar fashion as would be performed by cropping the image. Therefore, cropping of the desired areas of the image would assist in determining the exact location of the symbol and would assist in the ability to eliminate noise and enhance the visibility

Art Unit: 2179

of the symbol for communicating and matching in the database. Also, it would be beneficial to automatically crop the symbol in order to expedite the process (Bollman, column 1, lines 48 – 50).

As per claims 6 and 27, Cheatle discloses the methods of claims 1 and 23, respectively. However, Cheatle does not explicitly disclose checking said communicated graphic symbol for visual anomalies or distortions and altering said visual anomalies prior to said searching or matching.

Nevertheless, in an analogous art, Bollman discloses *checking a graphic symbol for visual anomalies or distortions; and altering said visual anomalies or distortions* (column 2, lines 1 – 5 and column 4, lines 60 – 64).

Thus, it would be obvious to incorporate Bollman's teaching into Cheatle's invention to check for and alter any visual anomalies or distortions, because the use of an image analyzer of Cheatle's invention to identify the recognizable objects of an image would require an ability to interpret said recognizable objects in light of visual anomalies, otherwise the analyzer could not function correctly to identify objects, and the entire invention would be useless. Thus, in order to identify objects in images that include visual anomalies or distortions, one would want to enhance the image to eliminate noise and other anomalies and distortions that would interfere with the matching.

As per claims 7 and 28, Cheatle and Bollman substantially disclose the methods of claims 6 and 27, respectively. In addition, Bollman further discloses *checking a graphic object of an image for visual anomalies and altering said visual anomalies comprising one or more of:*

- *distortion and noise* (column 2, lines 1 – 5 and column 4, lines 60 – 64), wherein image distortion is attributed to noise and elimination of said noise and effective image enhancement alters the distortion;
- *blur and contrast* (column 2, lines 1 – 5), wherein the process of image enhancement effectively includes the improvement of the image due to blur or contrast;
- *brightness* (column 2, lines 1 – 5 and column 3, lines 35 – 43);
- *perspective, orientation, and size* (column 2, lines 1 – 5), wherein adjusting the dimensions would alter the perspective, orientation, or size.

As per claim 19, Cheatle discloses the information management system of claim 12. In addition Cheatle discloses *a search application for searching said plurality of stored symbols for a match and an error checking application for checking for errors during execution of said search application* ([0034]), where it is interpreted that the fact that the database is interrogated during the searching means that the process would check for the validity, and thus errors, of the potential matches. However, Cheatle does not explicitly disclose a graphics application for repairing defects in said detected unique symbol.

Nevertheless, in an analogous art, Bollman discloses *a graphics application for repairing defects in a detected graphic object of an image* (column 2, lines 1 – 5 and column 4, lines 60 – 64).

Thus, it would be obvious to incorporate Bollman's teaching into Cheatle's invention for the same reasons as disclosed in the rejection of claims 6 and 27.

As per claim 20, Cheatle and Bollman substantially disclose the information management system of claim 19. In addition, Cheatle further discloses *an image manager for managing execution of said server-side logic on said server* ([0065] – [0066]).


Conclusion

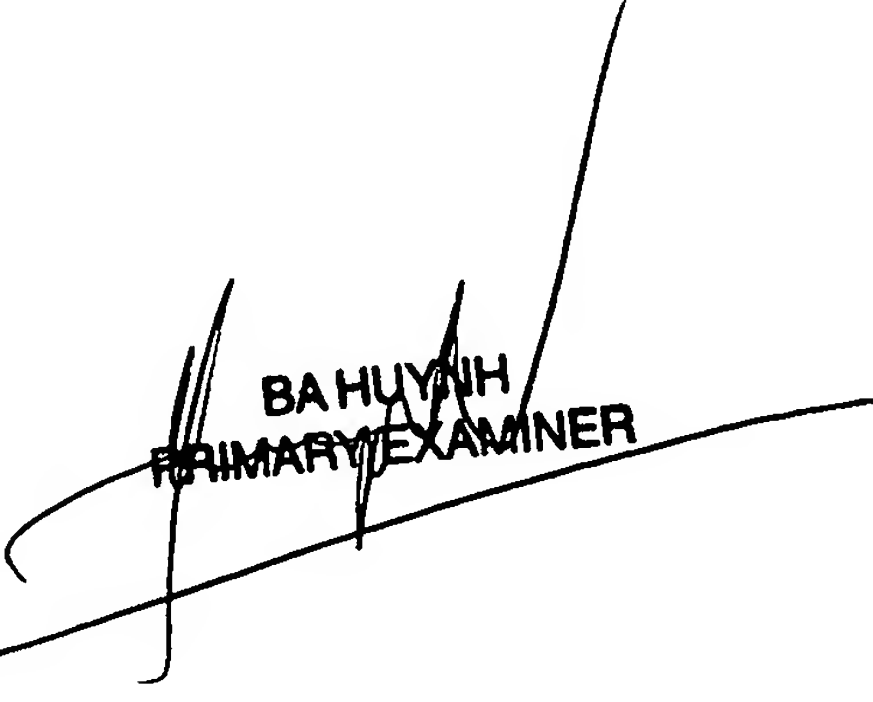
8. The prior art made of record and not relied upon is considered pertinent to the applicant's disclosure. The cited documents represent the general state of the art.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric A. Wiener whose telephone number is 571-270-1401. The examiner can normally be reached on Monday through Thursday from 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo, can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Eric Wiener
Patent Examiner
A.U. 2179


BA HUYNH
PRIMARY EXAMINER